

MATH 1710.120: CALCULUS I

Fall 2026 Course Syllabus

Course & Instructor Information

Course Meeting: MWF 11:15 AM — 12:05 PM
Classroom: ENV 125
Instructor: Professor Kai-Sheng Song
Office Location: GAB 440G
Office Hours: MF 12:30 PM — 1:30 PM or by appointment
Email: kai-sheng.song@unt.edu

Communication Expectations: Please use the above email address for all communications (only from UNT accounts). Students can expect to receive my response to emails as soon as possible within 48 hours.

Course Description

Calculus I is the study of limits and continuity, derivatives, and integrals. The class will cover differentiation and integration of polynomial, rational, trigonometric, and algebraic functions as well as applications, including slope, velocity, extrema, area, volume, and work.

Required Text & Materials

- **Cengage WebAssign:** WebAssign is an online course delivery platform accessed directly through Canvas. Access includes all online homework assignments, the e-text of *Calculus* (9th Edition) by James Stewart et al., and additional learning resources. Use the link in Canvas to register immediately. You must register in WebAssign by the 2nd class day of the semester.
- **Textbook:** James Stewart, Daniel K. Clegg, and Saleem Watson, *Calculus*, 9th Edition. Available digitally via WebAssign.
- **Trial Period:** WebAssign grants a no-cost temporary 14-day access starting the first day of the course. You must purchase full access before the trial period ends to avoid losing credit for completed work.

Grading Policy

The final course grade will be based on regular homework, quizzes, midterm exams, and a final exam. The weights are as follows:

Calculus Readiness Assignment	5%
Homework (WebAssign)	10%
Quizzes (Recitation)	20%
Midterm Exams (2)	40%
Final Exam	25%

Letter Grade Distribution

- **A:** 90%–100% (Outstanding, excellent work. Performs well above minimum criteria.)
- **B:** 80%–89% (Good, impressive work. Performs above minimum criteria.)
- **C:** 70%–79% (Solid, college-level work. Meets criteria of assignments.)
- **D:** 60%–69% (Below average work. Fails to meet minimum criteria.)
- **F:** 59% and below (Sub-par work. Fails to complete assignments.)

Course Structure & Component Details

This course meets in person 3 times per week for lectures and 2 times per week for recitation.

Calculus Readiness Assignment

During the first three weeks of the semester, you must complete a review assignment in WebAssign covering core Precalculus topics. You will have 100 attempts per question to allow full review. This counts for 5% of your overall course grade.

Homework

Homework will be assigned weekly. Homework assignments and their due dates are on WebAssign/Canvas. Check WebAssign frequently for due dates; automated Canvas reminders are not guaranteed. Late work will **NOT** be accepted in this course under any circumstances. Your lowest four (4) homework scores will be dropped.

Quizzes (Recitation)

There will be a quiz or activity each week during recitation covering material from the prior week. All quizzes are closed-book and closed-notes. There are **no make-up quizzes** under any circumstances. Your lowest two (2) quiz scores will be dropped.

Midterm Exams & Final Exam

There will be **two (2) midterm exams** administered in person during our scheduled lecture times, as well as a **final exam** scheduled by UNT:

- **Midterm Exam 1:** Friday, September 18, 11:15 a.m. – 12:05 p.m.
- **Midterm Exam 2:** Friday, October 23, 11:15 a.m. – 12:05 p.m.
- **Final Exam:** Saturday, December 5, 10:30 a.m. – 12:30 p.m.
- **Exam Format & Calculator Policy:** All midterm exams and the final exam are strictly closed-book, closed-notes, and in-person. **Calculators of any kind (including scientific, graphing, or basic calculators) are strictly prohibited.** There are no remote or online exam options.

- **Missed Exams:** There are **no make-up exams** under any circumstances. Any unexcused missed exam receives a score of zero.
- **Excused Missed Exam Score Imputation Policy:** The score imputation policy applies **only** to a single midterm exam missed due to an officially verified University-excused/authorized absence (per UNT Policy 06.039). To be eligible for score imputation:
 - i. The instructor must be notified of the University-excused absence **BEFORE** the exam administration.
 - ii. The student must provide official written documentation of the University-authorized absence within 48 hours of the missed exam.

Important Restriction: Even if a student has official University-excused absences for **both** midterms, score imputation applies to **at most one** midterm exam. The second missed midterm will automatically receive a score of zero.

The imputed score for the single eligible missed midterm is calculated using the z-score standardization formula:

$$\text{Imputed Score} = \min \left(100, \max \left(0, \bar{X}_{\text{Mid}} + s_{\text{Mid}} \left[\frac{F_{\text{student}} - \bar{X}_{\text{Final}}}{s_{\text{Final}}} \right] \right) \right),$$

where:

- $\bar{X}_{\text{Mid}}$ is the class mean score of the missed midterm exam.
 - s_{Mid} is the standard deviation of the class scores for the missed midterm exam.
 - F_{student} is your individual score on the final exam.
 - $\bar{X}_{\text{Final}}$ is the class mean score on the final exam.
 - s_{Final} is the standard deviation of the class scores on the final exam.
- **Partial Credit:** All decisions regarding partial credit on exams are final and non-negotiable.

Recitation & Instructor Information

Recitation provides supplemental instruction led by a Teaching Assistant (TA). The TA will go through additional examples, answer homework questions, and administer weekly quizzes. The TA will not deliver full lectures.

Recitation Section: MATH 1710 121
Meeting Times: TR 11:30 am-12:20 pm
Classroom: PHYS 115
Instructor: Kyle McCarty
Recitation Section: MATH 1710 122
Meeting Times: TR 12:45pm-1:35pm
Classroom: GAB 317
Instructor: Kyle McCarty
Office Hours: TR 9:00 AM — 10:30 AM

Prerequisites & Expectations

- **Prerequisite:** A grade of C or higher in MATH 1650 (Precalculus) or equivalent.
- **Attendance:** Attendance is required. You are expected to actively participate and work through problems in both lecture and recitation. The instructor will not repeat whole lectures during office hours or via email.

- **Academic Integrity:** Cheating will not be tolerated. Any student found cheating will receive a zero on the assignment, quiz /exam and be reported to the Office of Academic Integrity.

Course Objectives

Upon successful completion of this course, students will be able to:

1. Develop solutions for tangent and area problems using limits, derivatives, and integrals.
2. Create graphs of functions considering limits, continuity, and differentiability.
3. Determine continuity and differentiability of functions at specific points.
4. Apply differentiation rules to algebraic and transcendental functions.
5. Model real-world applications using appropriate calculus techniques.
6. Evaluate definite integrals using the Fundamental Theorem of Calculus.
7. Articulate relationships between derivatives and integrals via the Fundamental Theorem of Calculus.
8. Calculate area between curves using integration techniques.
9. Calculate volumes of solids of revolution using disk/washer and cylindrical shell methods.

Technical Requirements & Student Support

- **Technology:** Access to a computer/tablet with reliable internet, Canvas access, WebAssign, and a scientific/graphing calculator (TI-84 or equivalent). Document scanning software (iOS Notes, Google Drive app, Adobe Scan) is required for submitting work.
- **UNT Math Lab (Sage Hall 130):** Free walk-in tutoring staffed by graduate and undergraduate math majors. Provides assistance on specific questions and concept clarifications.
- **UNT Learning Center:** Offers individual in-person and online tutoring appointments.

Course Schedule

The instructor reserves the right to adjust this schedule as needed. Students are responsible for any changes announced in class regardless of attendance.

Date	Monday	Date	Wednesday	Date	Friday
8/17	Introduction 1.4 Tangents and Velocity	8/19	1.4 Cont'd 1.5 Limits	8/21	1.5 Limits 1.6 Calculating limits
8/24	1.6 Calculating Limits	8/26	1.8 Continuity	8/28	2.1 Definition of derivative
8/31	2.1 Cont'd 2.2 Derivative as a Function	9/2	2.2 Cont'd 2.3 Derivative Rules	9/4	2.3 Derivative Rules
9/7	Labor Day – No class	9/9	2.4 Derivatives of Trig Functions	9/11	2.5 The Chain Rule
9/14	2.6 Implicit Differentiation	9/16	2.7 Rates of Change in the Sciences	9/18	Midterm Exam 1
9/21	2.8 Related Rates	9/23	2.8 Related Rates 2.9 Differentials / Linear Approx.	9/25	2.9 Cont'd 3.1 Maximum and Minimum Values
9/28	3.1 Cont'd	9/30	3.2 The Mean Value Theorem	10/2	3.2 Cont'd 3.3 The Shape of Graphs
10/5	3.3 Cont'd	10/7	3.3 Cont'd 3.4 Limits at Infinity	10/9	3.4 Limits at Infinity
10/12	3.5 Curve Sketching	10/14	3.5 Cont'd 3.7 Optimization	10/16	3.7 Cont'd
10/19	3.8 Newton's Method 3.9 Antiderivatives	10/21	3.9 Antiderivatives	10/23	Midterm Exam 2
10/26	4.1 Areas and Distances (Riemann Sums)	10/28	4.1 Cont'd 4.2 Definite Integrals	10/30	4.2 Cont'd
11/2	4.3 Fundamental Theorem of Calculus	11/4	4.4 Indefinite Integrals & Net Change	11/6	4.5 Substitution
11/9	4.5 Substitution	11/11	5.1 Area Between Curves	11/13	5.2 Volumes
11/16	5.2 Cont'd	11/18	5.3 Cylindrical Shells	11/20	5.3 Cont'd
11/23	Thanksgiving Break	11/25	Thanksgiving Break	11/27	Thanksgiving Break
11/30	5.3 Cont'd Wrap Up	12/2	Final Review	12/4	Reading Day – No class

Syllabus Change Policy

This syllabus is subject to change at the discretion of the Professor. Changes, if any, will be posted on Canvas.

Unauthorized Aids During Examinations and Assessments

Students may use only those materials and resources that are expressly authorized by the instructor for a particular examination or assessment. Touching, holding, or accessing any unauthorized aid during the examination period constitutes a violation of the Student Code of Conduct, regardless of whether the aid is used.

Any item that may be considered an unauthorized aid must be kept out of view and in a closed container (e.g. zipped backpack, buttoned purse, etc.) during the entirety of the examination or assessment.

Unless specifically authorized in writing by the instructor, prohibited aids include, but are not limited to:

- Mobile phones and smartphones
- Smartwatches and fitness trackers with communication, recording, or internet capabilities
- Tablets, laptops, and other computing devices
- Earbuds, headphones, and other audio devices
- Smart glasses, cameras, recording devices, and wearable technology
- Artificial intelligence (AI) tools, chatbots, and other generative AI technologies
- Notes, textbooks, study guides, formula sheets, or reference materials
- Any other device, material, or resource not expressly permitted by the instructor

Students are responsible for clarifying any questions about permitted materials before the examination begins.

Welcome to UNT!

As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT's full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Rules of Engagement

Rules of engagement refer to the way students are expected to interact with each other and with their instructors. Here are some general guidelines:

- While the freedom to express yourself is a fundamental human right, any communication that utilizes cruel and derogatory language on the basis of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law will not be tolerated.
- Treat your instructor and classmates with respect in any communication online or face-to-face, even when their opinion differs from your own.
- Ask for and use the correct name and pronouns for your instructor and classmates.
- Speak from personal experiences. Use “I” statements to share thoughts and feelings. Try not to speak on behalf of groups or other individual’s experiences.
- Use your critical thinking skills to challenge other people’s ideas, instead of attacking individuals.
- Avoid using all caps while communicating digitally. This may be interpreted as “YELLING!”
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using “text-talk” unless explicitly permitted by your instructor.
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type.

See these [Engagement Guidelines](#) for more information.

Online Course System

The University is committed to providing a reliable online course system to all users. However, part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

UIT Help Desk: [UIT Student Help Desk site](#)

Email: helpdesk@unt.edu

Phone: 940-565-2324

In Person: Sage Hall, Room 130

Walk-In Availability: 8am-9pm

Telephone Availability:

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

For additional support, visit [Canvas Technical Help](#).

UNT Policies

Academic Integrity Policy

According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the [ODA website](#).

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)

The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](#) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](#).

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](#) or email spot@unt.edu.

Survivor Advocacy

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct. Federal laws and UNT policies prohibit discrimination on the basis of sex as well as sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking and/or sexual assault, there are campus resources available to provide support and assistance. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648.

Important Notice for F-1 Students taking Distance Education Courses

Federal Regulation

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the [Electronic Code of Federal Regulations website](#). The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination

or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

University of North Texas Compliance

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

1. Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
2. Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

Student Verification

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses.

See [UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses](#).

Use of Student Work

A student owns the copyright for all work (e.g. software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- Use of the work does not affect any potential profits from the work.
- The student is not identified.

- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the UNT System Permission, Waiver and Release Form.

Transmission and Recording of Student Images in Electronically-Delivered Courses

1. No permission is needed from a student for his or her image or voice to be transmitted live via videoconference or streaming media, but all students should be informed when courses are to be conducted using either method of delivery.
2. In the event an instructor records student presentations, he or she must obtain permission from the student using a signed release in order to use the recording for future classes in accordance with the Use of Student-Created Work guidelines above.
3. Instructors who video-record their class lectures with the intention of re-using some or all of recordings for future class offerings must notify students on the course syllabus if students' images may appear on video. Instructors are also advised to provide accommodation for students who do not wish to appear in class recordings.

Example: This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings.

No notification is needed if only audio and slide capture is used or if the video only records the instructor's image. However, the instructor is encouraged to let students know the recordings will be available to them for study purposes.

Class Recordings & Student Likenesses

In case synchronous (live) sessions in this course will be recorded for students enrolled in this class section to refer to throughout the semester: Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

Academic Support & Student Services

Student Support Services

Mental Health

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- [Student Health and Wellness Center](#)

- [Counseling and Testing Services](#)
- [UNT Care Team](#)
- [UNT Psychiatric Services](#)
- [Individual Counseling](#)

Chosen Names

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- [UNT Records](#)
- [UNT ID Card](#)
- [UNT Email Address](#)
- [Legal Name](#)

*UNT euIDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.

Pronouns

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns.

You can add your pronouns to your Canvas account so that they follow your name when posting to discussion boards, submitting assignments, etc.

Below is a list of additional resources regarding pronouns and their usage:

- [What are pronouns and why are they important?](#)
- [How do I use pronouns?](#)
- [How do I share my pronouns?](#)
- [How do I ask for another person's pronouns?](#)
- [How do I correct myself or others when the wrong pronoun is used?](#)

Additional Student Support Services

- [Registrar](#)
- [Financial Aid](#)
- [Student Legal Services](#)
- [Career Center](#)

- [Multicultural Center](#)
- [Counseling and Testing Services](#)
- [Pride Alliance](#)
- [UNT Food Pantry](#)

Academic Support Services

- [Academic Resource Center](#)
- [Academic Success Center](#)
- [UNT Libraries](#)
- [Writing Center](#)
- [Math Lab](#)

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.